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FLEET MOORING LEG DESIGN PROGRAM DOCUMENTATION VOLUME 8 1/1  
MISCELLANEOUS(U) PRESEARCH INC ARLINGTON VA DEC 82  
FPO-1-82-(39) N62477-81-C-0025

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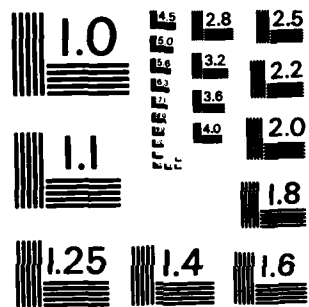
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MICROCOPY RESOLUTION TEST CHART  
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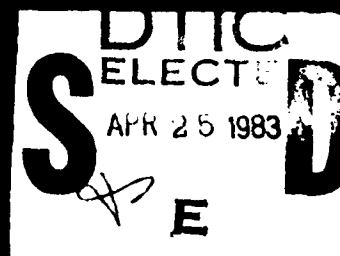
FLEET MOORING LEG  
DESIGN PROGRAM DOCUMENTATION

Volume 8  
MISCELLANEOUS

FPO-1-82-(39)

December 1982

*General Distribution*



**PRESEARCH INCORPORATED**

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FLEET MOORING LEG  
DESIGN PROGRAM DOCUMENTATION

Volume 8

MISCELLANEOUS

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## MISCELLANEOUS

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## V. LINK COMMAND FILES

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M2.CMD	3
M2GR.BAT	8
M2GR.CMD	8
M4.BAT	10
M4.CMD	10
M5.BAT	12
M5.CMD	12



#DIR SYS.FINAL/LINK

Directory Structure of SYS.LINK 23-Nov-82  
Directory Blocks Available- 2, Used- 1

M1	CMD	[1]	23-Nov-82	16 07
M1	BAT	[1]	23-Nov-82	16 10
M2	CMD	[15]	23-Nov-82	16 45
M2	BAT	[1]	23-Nov-82	16 39
M2GR	CMD	[3]	23-Nov-82	18 41
M2GR	BAT	[2]	23-Nov-82	18 42
M4	CMD	[5]	23-Nov-82	18 42
M4	BAT	[1]	23-Nov-82	19 03
M5	CMD	[1]	23-Nov-82	19 00
M5	BAT	[1]	23-Nov-82	19 02

Files-10,Blocks-31,Free-67,Largest-67

#TYPE SYS FINAL/LINK/M1 BAT

delete MOOR01 obj

delete mimap/\* \*

squish mimap

#

#TYPE SYS FINAL/LINK/M1 CMD

OUT MOOR01

BIAS SEAA

LINK i2obj/MOOR01,i2obj/BKDAT,i2obj/QUERY,i2obj/GFINIT,i2obj/RW,i2obj/ADDEXT

LINK i2obj/ECHO,i2obj/HXQRY,i2obj/GUTVAR,i2obj/CONVRT,i2obj/RWCOM1

EDIT SYS RTL,SYS DGL

COMMON

MAP mimap/MOOR01

END

#

#TYPE SYS FINAL/LINK/M2 BAT

delete moor02 obj

delete m2map/\* \*

squish m2map

delete m2oly/\* \*

squish m2oly

#

#TYPE SYS FINAL/LINK/M2 CMD

OUT MOOR02

BIAS SEAA

LINK i2obj/MOOR02,i2obj/BKDAT

EDIT SYS RTL,SYS DGL

COMMON

MAP m2map/MOOR02

OVERLAY 1

LINK i2obj/QUERY,i2obj/GFINIT,i2obj/RW,i2obj/ADDEXT

LINK i2obj/ECHO,i2obj/HXQRY,i2obj/OUTVAR,i2obj/CONVRT,i2obj/RWCOM1

EDIT SYS RTL

COMMON

MAP m2map/QUERY

SAVE m2oly/QUERY

OVERLAY 1

LINK i2obj/SOLVE

EDIT SYS RTL

COMMON

MAP m2map/SOLVE

SAVE m2oly/SOLVE

OVERLAY 2

LINK i2obj/PRSLV,i2obj/SECNT,i2obj/NWGT

LINK i2obj/UMAP,i2obj/CUMAP,i2obj/ISORT,i2obj/RWCOM1

EDIT SYS RTL

COMMON

MAP m2map/PRSLV

SAVE m2oly/PRSLV

OVERLAY 2

LINK i2obj/TAUT,i2obj/SEC1A,i2obj/CHS1A,i2obj/STEF2A,i2obj/CHS2A

LINK i2obj/CALC1,i2obj/SECNT

EDIT SYS RTL

COMMON

MAP m2map/TAUT  
SAVE m2oly/TAUT

OVERLAY 2

LINK i2obj/SLACK,i2obj/SEC1V,i2obj/STEF2V,i2obj/VCRIT0  
LINK i2obj/VFUN,i2obj/ESTV,i2obj/LENS,i2obj/CALC2,i2obj/SECNT  
EDIT SYS RTL

COMMON

MAP m2map/SLACK  
SAVE m2oly/SLACK

OVERLAY 2

LINK i2obj/EPSTLV,i2obj/ELV1,i2obj/GCOEFF,i2obj/CTEN1,i2obj/SECNT  
LINK i2obj/RDBACK,i2obj/RWCOM1  
EDIT SYS RTL

COMMON

MAP m2map/EPSTLV  
SAVE m2oly/EPSTLV

OVERLAY 2

LINK i2obj/CSLACK,i2obj/CPREP1,i2obj/CPREP2,i2obj/CPREP3  
LINK i2obj/SUMSC,i2obj/VCRIT0,i2obj/PHIAB,i2obj/SECNT  
LINK i2obj/HSPLIT,i2obj/TRISR,i2obj/SRISR,i2obj/EBUOY,i2obj/SCOIL  
LINK i2obj/STEFAB,i2obj/JUNCT,i2obj/JTEN,i2obj/TSPLIT,i2obj/SUBVX,i2obj/EDGPT  
LINK i2obj/SCA7A8,i2obj/LENS,i2obj/TAN1,i2obj/X4CALC,i2obj/CALC2,i2obj/WGTH  
LINK i2obj/CERISR,i2obj/CALC3,i2obj/SECVIT,i2obj/XSECV,i2obj/SHIFT  
EDIT SYS RTL

COMMON

MAP m2map/CSLACK  
SAVE m2oly/CSLACK

OVERLAY 3

LINK i2obj/CPREP0  
EDIT SYS RTL

COMMON

MAP m2map/CPREP0  
SAVE m2oly/CPREP0

OVERLAY 3

LINK i2obj/CSSHPP  
EDIT SYS RTL

COMMON

MAP m2map/CSSH  
SAVE m2oly/CSSH

OVERLAY 3  
LINK i2obj/CSEHP ,i2obj/FTEN ,i2obj/CSSH  
EDIT SYS RTL  
COMMON  
MAP m2map/CSEHP  
SAVE m2oly/CSEHP

OVERLAY 3  
LINK i2obj/CSSPR ,i2obj/CSSH  
EDIT SYS RTL  
COMMON  
MAP m2map/CSSPR  
SAVE m2oly/CSSPR

OVERLAY 3  
LINK i2obj/CSEPR ,i2obj/CSEHP ,i2obj/FTEN ,i2obj/CSSH  
EDIT SYS RTL  
COMMON  
MAP m2map/CSEPR  
SAVE m2oly/CSEPR

OVERLAY 3  
LINK i2obj/CSSXZ1 ,i2obj/CSSPR ,i2obj/CSSH  
EDIT SYS RTL  
COMMON  
MAP m2map/CSSXZ1  
SAVE m2oly/CSSXZ1

OVERLAY 3  
LINK i2obj/CSSXZ2 ,i2obj/CSSH  
EDIT SYS RTL  
COMMON  
MAP m2map/CSSXZ2  
SAVE m2oly/CSSXZ2

OVERLAY 3  
LINK i2obj/CSEXZ1 ,i2obj/CSEPR ,i2obj/CSEHP ,i2obj/FTEN ,i2obj/CSSH  
EDIT SYS RTL  
COMMON  
MAP m2map/CSEXZ1

SAVE m2oly/CSEXZ1

OVERLAY 3

LINK i2obj/CSEXZ2 ,i2obj/CSEHP ,i2obj/FTEN ,i2obj/CSSH

EDIT SYS RTL

COMMON

MAP m2map/CSEXZ2

SAVE m2oly/CSEXZ2

OVERLAY 2

LINK i2obj/CEPSLV ,i2obj/SUMSC ,i2obj/VCRIT0 ,i2obj/SECNT

LINK i2obj/FNOD ,i2obj/LENH ,i2obj/CTEN3 ,i2obj/CTEN2

LINK i2obj/ELV2 ,i2obj/CRDBAK ,i2obj/CCOEFF ,i2obj/COMMAP ,i2obj/CONTYP

LINK i2obj/RWCOM1

EDIT SYS RTL

COMMON

MAP m2map/CEPSLV

SAVE m2oly/CEPSLV

OVERLAY 1

LINK i2obj/GRAPH1 ,i2obj/GFINIT ,i2obj/RWCOM1

EDIT SYS RTL

COMMON

MAP m2map/GRAPH1

SAVE m2oly/GRAPH1

OVERLAY 2

LINK i2obj/GRIN1

EDIT SYS RTL

COMMON

MAP m2map/GRIN1

SAVE m2oly/GRIN1

OVERLAY 2

LINK i2obj/GRIN2

EDIT SYS RTL

COMMON

MAP m2map/GRIN2

SAVE m2oly/GRIN2

OVERLAY 2

LINK i2obj/GROUT1

EDIT SYS RTL

COMMON

MAP m2map/GROUT1  
SAVE m2oly/GROUT1

OVERLAY 2

LINK i2obj/GROUT2  
EDIT SYS RTL  
COMMON  
MAP m2map/GROUT2  
SAVE m2oly/GROUT2

OVERLAY 1

LINK i2obj/GRAPHS,i2obj/GFINIT,i2obj/STICK,i2obj/SINKER,i2obj/ANCHOR  
LINK i2obj/ELIZER,i2obj/BUOY,i2obj/RWCOM1  
EDIT SYS RTL  
COMMON  
MAP m2map/GRAPHS  
SAVE m2oly/GRAPHS

OVERLAY 1

LINK i2obj/ELVPNT,i2obj/ELVCAT,i2obj/SYMSNK,i2obj/WELVPT  
LINK i2obj/SECNT,i2obj/RWCOM1,i2obj/ADDEXT,i2obj/LENH  
EDIT SYS RTL  
COMMON  
MAP m2map/ELVPNT  
SAVE m2oly/ELVPNT

OVERLAY 1

LINK i2obj/PLNPNT,i2obj/PLNCAT,i2obj/PLNSNK,i2obj/WPLNPNT  
LINK i2obj/SECNT,i2obj/RWCOM1,i2obj/ADDEXT,i2obj/LENH  
EDIT SYS RTL  
COMMON  
MAP m2map/PLNPNT  
SAVE m2oly/PLNPNT

END

#

TYPE SYS FINAL/LINK/M2GR BAT

delete m2map/GRAPH1 map  
delete m2map/GRIN1 map  
delete m2map/GRIN2 map  
delete m2map/GROUT1 map  
delete m2map/GROUT2 map  
delete m2map/GRAPHS map  
squish m2map  
delete m2oly/GRAPH1 oly  
delete m2oly/GRIN1 oly  
delete m2oly/GRIN2 oly  
delete m2oly/GROUT1 oly  
delete m2oly/GROUT2 oly  
delete m2oly/GRAPHS oly  
squish m2oly

#

#TYPE SYS FINAL/LINK/M2GR CMD

OUT DUMMY0

BIAS SEAA

LINK i2obj/MOOR02,i2obj/BKDAT

EDIT SYS RTL,SYS DCL

COMMON

OVERLAY 1

LINK i2obj/GRAPH1,i2obj/GFINIT,i2obj/RWCOM1

EDIT SYS RTL

COMMON

MAP m2map/GRAPH1

SAVE m2oly/GRAPH1

OVERLAY 2

LINK i2obj/GRIN1

EDIT SYS RTL

COMMON

MAP m2map/GRIN1

SAVE m2oly/GRIN1

OVERLAY 2

LINK i2obj/GRIN2

EDIT SYS RTL

COMMON

MAP m2map/GRIN2

SAVE m2oly/GRIN2



OVERLAY 2  
LINK i2obj/GROUT1  
EDIT SYS RTL  
COMMON  
MAP m2map/GROUT1  
SAVE m2oly/GROUT1

OVERLAY 2  
LINK i2obj/GROUT2  
EDIT SYS RTL  
COMMON  
MAP m2map/GROUT2  
SAVE m2oly/GROUT2

OVERLAY 1  
LINK i2obj/GRAPHS,i2obj/GFINIT,i2obj/STICK,i2obj/SINKER,i2obj/ANCHOR  
LINK i2obj/ELIZER,i2obj/BUOY,i2obj/RWCOM1  
EDIT SYS RTL  
COMMON  
MAP m2map/GRAPHS  
SAVE m2oly/GRAPHS

END  
#

#TYPE SYS FINAL/LINK/M4 BAT

delete moor04 obj

delete m4map/\* \*

squish m4map

delete m4oly/\* \*

squish m4oly

#

#TYPE SYS FINAL/LINK/M4 CMD

OUT MOOR04

BIAS SEAA

LINK i2obj/MOOR04,i2obj/BKDAT

EDIT SYS RTL,SYS DGL

COMMON

MAP m4map/MOOR04

OVERLAY 1

LINK i2obj/QUERY,i2obj/GFINIT,i2obj/RW,i2obj/ADDEXT

LINK i2obj/ECHO,i2obj/HXQRY,i2obj/OUTVAR,i2obj/CONVRT,i2obj/RWCOM1

EDIT SYS RTL

COMMON

MAP m4map/QUERY

SAVE m4oly/QUERY

OVERLAY 1

LINK i2obj/PRSLV,i2obj/SECNT,i2obj/NWGT

LINK i2obj/UMAP,i2obj/CUMAP,i2obj/ISORT,i2obj/RWCOM1

EDIT SYS RTL

COMMON

MAP m4map/PRSLV

SAVE m4oly/PRSLV

OVERLAY 1

LINK i2obj/HXCALC,i2obj/CPREP1,i2obj/CPREP2,i2obj/CPREP3

LINK i2obj/SUMSC,i2obj/VCRIT0,i2obj/PHIAB,i2obj/SECNT

LINK i2obj/HSPLIT,i2obj/TRISR,i2obj/SRISR,i2obj/EBUOY,i2obj/SCOIL

LINK i2obj/STEFAB,i2obj/JUNCT,i2obj/JTEN,i2obj/TSPLIT,i2obj/SUBVX,i2obj/EDGPT

LINK i2obj/SCA7A8,i2obj/LENS,i2obj/TANI,i2obj/X4CALC,i2obj/CALC2,i2obj/WGTH

LINK i2obj/CERISR,i2obj/CALC3,i2obj/SECVIT,i2obj/XSECV,i2obj/SHIFT

EDIT SYS RTL

COMMON

MAP m4map/HXCALC

SAVE m4oly/HXCALC

OVERLAY 2  
LINK i2obj/HXCLC1 ,i2obj/SEC1V ,i2obj/VFUN ,i2obj/ESTV  
EDIT SYS RTL  
COMMON  
MAP m4map/HXCLC1  
SAVE m4oly/HXCLC1

OVERLAY 2  
LINK i2obj/HXCLC2 ,i2obj/CSXHP ,i2obj/CSEHP ,i2obj/FTEN ,i2obj/CSSH  
EDIT SYS RTL  
COMMON  
MAP m4map/HXCLC2  
SAVE m4oly/HXCLC2

OVERLAY 2  
LINK i2obj/CPREP0  
EDIT SYS RTL  
COMMON  
MAP m4map/CPREP0  
SAVE m4oly/CPREP0

END  
#

```
#TYPE SYS FINAL/LINK/M5 BAT
delete MOOR05 obj
delete m5map/* *
squish m5map
#
#TYPE SYS FINAL/LINK/M5 CMD
OUT MOOR05
BIAS SEAA
LINK i2obj/MOOR05,i2obj/ADDEXT
EDIT SYS HGL
EDIT SYS RTL
COMMON
MAP m5map/MOOR05 map

END
#
```

## VI. FILE DESCRIPTIONS

INPUT PARAMETER FILE	1
LOGICAL UNIT 99	4
ECHO FILE	5
COMMON BLOCK FILE	6
GRAPHICS POINT FILE	8

## INPUT PARAMETER FILE

Purpose. Holds values of input parameters for a basic mooring leg. May be used to run a single solution or to generate the point file for a load & deflection curve.

Name A prefix chosen by the user, followed by the extension ".VAR".

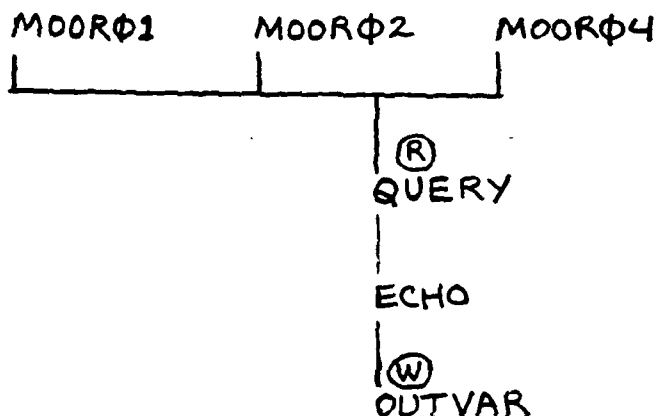
Format Variable-length character-string records as indicated.

<u>rec #</u>	<u>format</u>	<u>cols</u>	<u>data description</u>	
1	(50A1)	1-50	title of run	
2	(32A1)	1-32	name of original input file	
3	(I1)	1	type of solution procedure	
4	(I1)	1	type of leg	
5	(10A1)	1-10	anchor separation	
6	(10A1)	1-10	X-coord of point 1	PIX
7	(10A1)	1-10	Z-coord of point 1	PIZ
8	(10A1)	1-10	D-coord of point 1	PID
9	(10A1)	1-10	X-coord of point 2	P2X
10	(10A1)	1-10	Z-coord of point 2	P2Z
11	(10A1)	1-10	D-coord of point 2	P2D
12	(10A1)	1-10	X-coord of point 3	P3X
13	(10A1)	1-10	Z-coord of point 3	P3Z
14	(10A1)	1-10	D-coord of point 3	P3D
15	(I1)	1-10	# components in branch A	
16	(10A1)	1-10	chain angle at anchor	A1A
17	(10A1)	1-10	scope	S1A
18	(10A1)	1-10	linear weight	W1A
19	(10A1)	1-10	clump weight	C1A

<u>rec#</u>	<u>format</u>	<u>cols</u>	<u>data description</u>	
20	(10A1)	1-10	scope	S2A
21	(10A1)	1-10	linear weight	W2A
22	(10A1)	1-10	clump weight	C2A
23	(10A1)	1-10	scope	S3A
24	(10A1)	1-10	linear weight	W3A
25	(I1)	1	# chain segments in branch B	
26	(10A1)	1-10	chain angle at anchor	A1B
27	(10A1)	1-10	scope	S1B
28	(10A1)	1-10	linear weight	W1B
29	(10A1)	1-10	clump weight	C1B
30	(10A1)	1-10	scope	S2B
31	(10A1)	1-10	linear weight	W2B
32	(10A1)	1-10	clump weight	C2B
33	(10A1)	1-10	scope	S3B
34	(10A1)	1-10	linear weight	W3B
35	(10A1)	1-10	initial slippage across equalizer	
36	(10A1)	1-10	friction coefficient of equalizer	
37	(10A1)	1-10	clump weight	C3
38	(10A1)	1-10	scope	S4
39	(10A1)	1-10	linear weight	W4
40	(10A1)	1-10	horizontal load	H
41	(10A1)	1-10	horizontal load direction	
42	(10A1)	1-10	buoy displacement	
43	(10A1)	1-10	riser direction	
44	(10A1)	1-10	buoy x-coordinate	
45	(10A1)	1-10	buoy z-coordinate	
46	(I1)	1	choice of known parameters	

Subroutines As diagrammed below.

Tree structure indicates subroutine calls. Symbol (R) indicates that subroutine reads from file; symbol (W) indicates that subroutine writes to file.





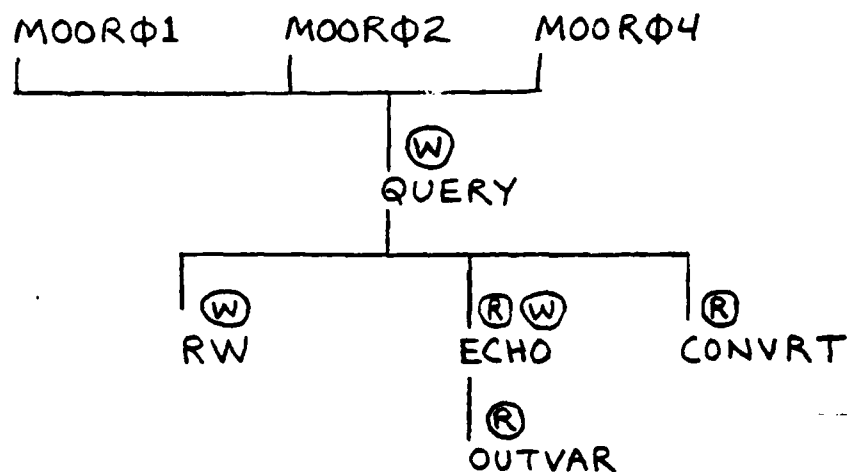
## LOGICAL UNIT 99

Purpose. Holds character string values of input parameters in main memory during the QUERY/ECHO process. Use of this internal file simplifies the conversion of character strings to numeric values.

Name. Referenced by logical unit number 99 in a read or write statement.

Format. Variable-length character-string records. Record formats are identical to those of the input parameter data file, beginning with record 3 (type of solution procedure) of that file; thus there are 44 records.

Subroutines. As diagrammed below.



## ECHO FILE

Purpose. Holds the descriptors that identify input parameters when their values are displayed on the screen during the QUERY/ECHO process.

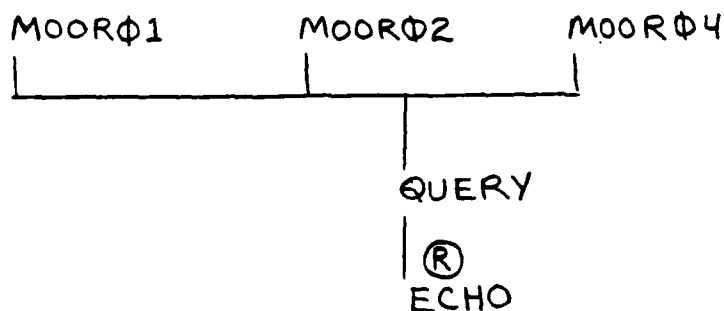
Name. T2TAB/ECHO.TAB

Format. Fixed-length character-string records.

There are 44 records. Each record contains the descriptor for the parameter of the corresponding record in logical unit 99. All records are in the following format.

<u>format</u>	<u>cols</u>	<u>data</u>
(3A1)	1-3	code for input parameter
(1X)	4	blank
(60A1)	5-64	text description for input parameter

Subroutines. As diagrammed below.



## COMMON BLOCK FILE

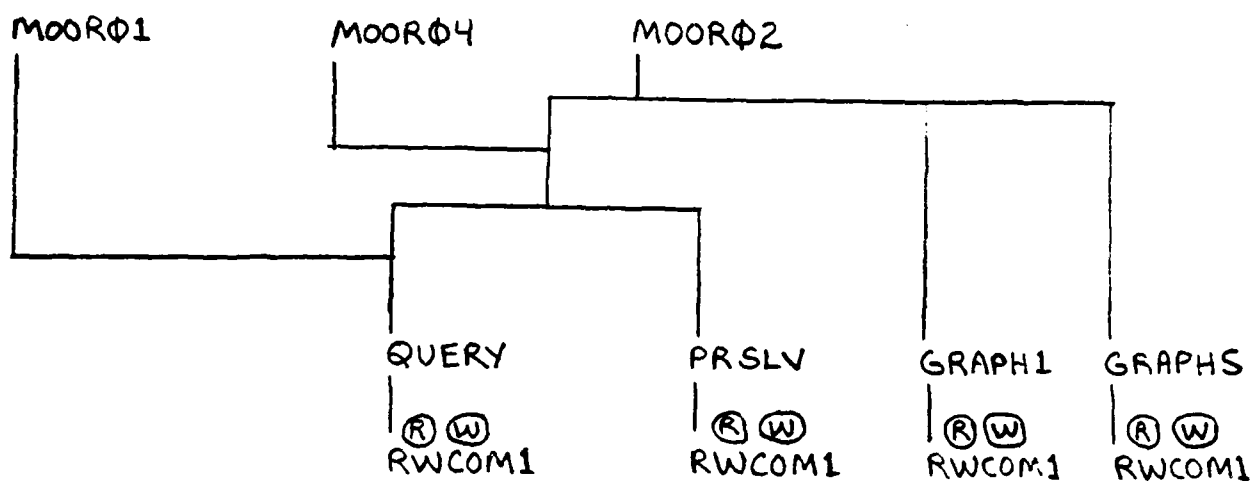
Purpose. Holds the values of variables in common blocks not used by the solution procedure, for transfer between overlays.

Name. T2DAT/COMMON.DAT

Format. Variable-length binary records. Each byte of storage in a common block is represented as the value of an integer\*1 variable.

<u>record #</u>	<u>common block</u>	<u># bytes</u>
1	/TITLES/	114
2	/DATIME/	16
3	/VARIN/	172
4	/VAROUT/	240
5	/VAROUT/	100
6	/VARG/	240
7	/UNKNOW/	12
8	/GROPT/	44
9	/GRP2CN/	218
10	/GRP2CN/	82

Subroutines. As diagrammed below.



## GRAPHICS POINT FILE

Purpose. Holds graphics point coordinates and all other data necessary for program MOORΦ5 to produce a graph.

Name. A prefix selected by the user, followed by an extension:

"LDC" for a load deflection curve

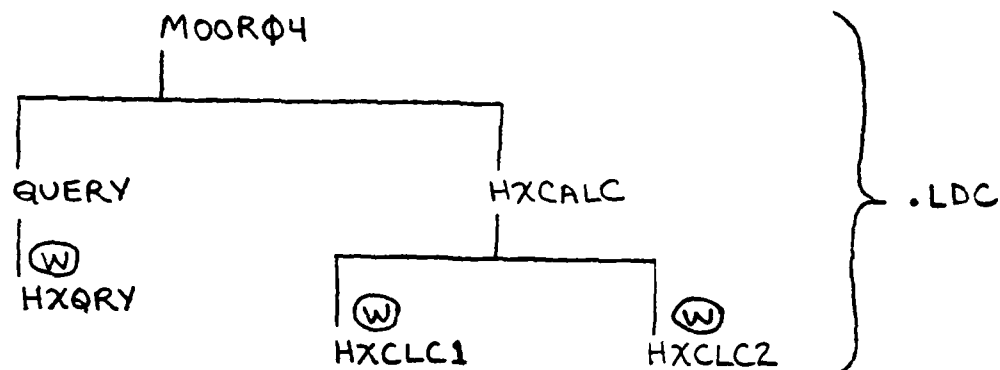
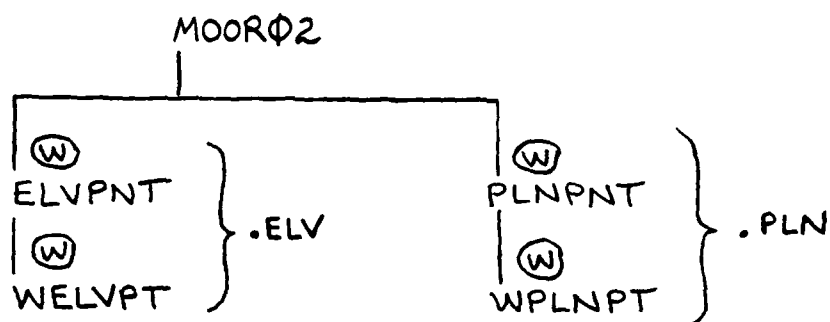
"ELV" for an elevation view

"PLN" for a plan view

Format. Variable-length character-storing records, as indicated.

<u>record #</u>	<u>format</u>	<u>cols</u>	<u>data</u>
1	(I1)	1	graph type
2	(50A1)	1-50	run title
3	(5A2)	1-10	date
4	(I2,":",I2,":",I2)	1-8	hour, minute, second
5	(F8.2,1X,F8.2)	1-17	X <sub>max</sub> , Y <sub>max</sub>
6	(F8.2,1X,F8.2)	1-17	X <sub>min</sub> , Y <sub>min</sub>
7	(I2)	1-2	# of components
8	(I5)	1-5	# of points, component 1
9	(F8.2,1X,F8.2,I2)	1-19	X, Y, symbol
	⋮	⋮	⋮
	(F8.2,1X,F8.2,I2)	1-19	X, Y, symbol
	(I5)	1-5	# of points, component 2
	(F8.2,1X,F8.2,I2)	1-19	X, Y, symbol
	⋮	⋮	⋮
	(I5)	1-5	# of points, last component
	(F8.2,1X,F8.2,I2)	1-19	X, Y, symbol
	⋮	⋮	⋮
	(F8.2,1X,F8.2,I2)	1-19	X, Y, symbol

Subroutines. As diagrammed below.



Ⓡ MOORΦ5 } all graph types

## VII. COMMON BLOCKS

## LIST OF COMMON BLOCKS

/DATE/  
 /GCB/  
 /GROPT/  
 /GRP2CN/  
 /LUNITS/  
 /TITLES/  
 /UNKNOWN/  
 /VANCH/  
 /VARG/  
 /VARIN/  
 /VAROUT/  
 /VCMPO/  
 /VCONST/  
 /VCSSHP/  
 /VCSSXZ/  
 /VELVPT/  
 /VEQUAL/  
 /VGLOB/  
 /VHDIR/  
 /VHVEC/  
 /VHXCRV/  
 /VOFLR/  
 /VSCOIL/  
 /VSEC/  
 /VSPID/  
 /VSTAB/

## LIST OF SUBROUTINES BY COMMON BLOCK

COMMON BLOCK: /DATE/  
 CEPSLV  
 ELVPNT  
 EPSLV  
 GRAPH1  
 GRAPHS  
 GRIN1  
 MUOR01  
 PLNPNT  
 PRSLV  
 QUERY  
 RWCOM1

COMMON BLOCK: /GCB/  
 BKDAT  
 GFINIT  
 GRIN1  
 GROUT1  
 MUOR01  
 MUOR02  
 MUOR04  
 QUERY  
 STICK



## COMMON BLOCK: /GROPT/

ANCHOR  
BUDY  
CEPSLV  
ELIZER  
ELVPNT  
EPSLV  
GRAPH1  
GRAPHS  
MOOR01  
PLNPNT  
PRSLV  
QUERY  
RWCOM1  
SINKER

## COMMON BLOCK: /GRP2CN/

CEPSLV  
ELVPNT  
EPSLV  
GRAPH1  
GRAPHS  
MOOR01  
PLNPNT  
PRSLV  
QUERY  
RWCOM1

## COMMON BLOCK: /LUNITS/

BKDAT  
CONVRT  
ECHO  
ELVPNT  
GRIN1  
GRIN2  
GROUT1  
GROUT2  
HXCLC1  
HXCLC2  
HXQRY  
MOOR01  
MOOR02  
MOOR04  
OUTVAR  
PLNPNT  
QUERY  
RW  
WELVPT  
WPLNPNT

## COMMON BLOCK: /TITLES/

CEPSLV  
CONVRT  
ECHO  
ELVPNT  
EPSLV  
GRAPH1  
GRAPHS  
GRIN1  
HXQRY  
MOOR01  
OUTVAR  
PLNPNT  
PRSLV  
QUERY  
RWCOM1

COMMON BLOCK: /UNKNOWN/

CEPSLV  
CONVRT  
ELVPNT  
EPSLV  
GRAPH1  
GRAPHS  
GROUT1  
MOOR01  
PLNPNT  
PRSLV  
QUERY  
RWCOM1

COMMON BLOCK: /VANCH/

CALC3  
CEPSLV  
CPREP0  
CPREP1  
CSEHP  
CSEPR  
CSSHP  
CSSPR  
EBUOY  
EDGPT  
ELV2  
ELVPNT  
MOOR02  
MOOR04  
PLNPNT  
PRSLV  
SOLVE  
STEFAB  
TSPLIT

COMMON BLOCK: /VARG/

CEPSLV  
ELV1

ELV2  
ELVPNT  
EPSLV  
GRAPH1  
GRAPHS  
GRIN2  
MUOR01  
PLNPNT  
PRSLV  
QUERY  
RWCOM1

COMMON BLOCK: /VARI11/

CEPSLV  
CONVRT  
CRDBAK  
ECHO  
ELVPNT  
EPSLV  
GRAPH1  
GRAPHS  
GRIN1  
GRIN2  
GROUT1  
MUOR01  
PLNPNT  
PRSLV  
QUERY  
RDBACK  
RWCOM1

COMMON BLOCK: /VAROUT/

CEPSLV  
ELVPNT  
EPSLV  
GRAPH1  
GRAPHS  
GRIN2  
GROUT1  
GROUT2  
MUOR01  
PLNPNT  
PRSLV  
QUERY  
RWCOM1

COMMON BLOCK: /VCMPC/

CALC3  
CPREPO  
CSEHP  
CSEPR  
CSLACK  
CSSHP  
EBUOY

EDGPT  
FTEN  
HXCALC  
JUNCT  
SCOIL  
STEFAB

COMMON BLOCK: /VCONST/

CALC3  
CEPSLV  
CHS1A  
CHS2A  
CPREP0  
CPREP1  
CPREP2  
CRDBAK  
CSEHP  
CSEPR  
CSEXZ1  
CSEXZ2  
CSLACK  
CSSHP  
CSSPR  
CSSXZ1  
CSSXZ2  
CTEN1  
CTEN2  
CTEN3  
EBUOY  
EDGPT  
ELV1  
ELV2  
ELVCAT  
ELVPNT  
EPSLV  
FNOD  
GCoeff  
HXCLC1  
HXCLC2  
JUNCT  
MOOR02  
MOOR04  
PHIAB  
PLNCAT  
PLNPNT  
PLNSNK  
PRSLV  
ROBACK  
SCOIL  
SEC1A  
SECVIT  
SDLVE  
SRISR  
STEF2A  
STEF2V  
STEFAB  
SUBVX  
SYMSNK

TAN1  
TSPLIT  
VCRIT0  
NGTH  
XSECV

COMMON BLOCK: /VCSSHP/  
CALC3  
CERISR  
CSLACK  
CSSHP  
EBUOY  
EDGPT  
HSPLIT  
HXCALC  
JUNCT  
SCA7AB  
SCOIL  
STEFAB  
TRISR  
X4CALC  
XSECV

COMMON BLOCK: /VCSSXZ/  
CSEXZ1  
CSEXZ2  
CSLACK  
CSSXZ1  
CSSXZ2  
HXCALC

COMMON BLOCK: /VELVPT/  
ELVCAT  
ELVPNT  
PLNCAT  
PLNPNT  
PLNSNK  
SYMSNK  
WELVPT  
WPLNPT

COMMON BLOCK: /VEQUAL/  
CPREPO  
CSEMP  
CSLACK  
HXCALC

COMMON BLOCK: /VGLOB/  
CALC3  
CEPSLV

CERISR  
CPREP0  
CPREP1  
CPREP2  
CPREP3  
CRDBAK  
CSEHP  
CSEPR  
CSEXZ1  
CSEXZ2  
CSLACK  
CSSHP  
CSSPR  
CSSXZ1  
CSSXZ2  
EBUOY  
EDGPT  
ELV1  
ELV2  
ELVCAT  
ELVPNT  
EPSLV  
FTEN  
HSPLIT  
HXCALC  
HXCLC1  
HXCLC2  
JTEN  
JUNCT  
MUOR02  
MUOR04  
PLNCAT  
PLNPNT  
PLNSNK  
PRSLV  
RDBACK  
SCA7A8  
SCOIL  
SLACK  
SOLVE  
SRISR  
STEFAB  
SYMSNK  
TAUT  
TRISR  
TSPLIT  
X4CALC  
XSECV

COMMON BLOCK: /VMDIR/

CPREP2  
CPREP3  
CSEPR  
CSLACK  
CSSHP  
CSSPR  
EBUOY  
EDGPT

HXCALC  
JTEN  
SCDIL  
SRISR  
STEFAB  
TSPLIT  
XSECV

COMMON BLOCK: /VHVEC/  
CPREP3  
CSLACK  
CSSHP  
EBUDY  
HXCALC  
SCDIL  
SRISR  
TRISR  
X4CALC  
XSECV

COMMON BLOCK: /VHXCRV/  
HXCLC1  
HXCLC2  
HXQRY  
MUOR01  
QUERY

COMMON BLOCK: /VOFLR/  
CEPSLV  
CPREP2  
CSSHP  
ELVPNT  
EPSLV  
HSPLIT  
MUOR02  
MUOR04  
PLNPNT  
PRSLV  
SOLVE

COMMON BLOCK: /VSCDIL/  
CSLACK  
HXCALC  
SCDIL  
SHIFT  
SUBVX  
MGTH  
XSECV

COMMON BLOCK: /VSEC/

CALC3  
CSEPR  
CSLACK  
CSSHP  
CSSPR  
HXCALC  
SCOIL  
SECVIT  
SHIFT  
STEFAB  
SUBVX  
XSECV

COMMON BLOCK: /VSPID/

CALC3  
CPREP1  
CSEHP  
CSEPR  
CSLACK  
CSSHP  
CSSPR  
EBUOY  
HXCALC  
HXCLC1  
HXCLC2  
STEFAB  
TSPLIT

COMMON BLOCK: /VSTAB/

CALC3  
CSLACK  
CSSHP  
HXCALC  
STEFAB  
XSECV



## VIII. DIRECTORY LISTINGS

SYS:FINAL.LIB	1	Master library.
SLIST.DAT	2	List of all programs and subroutines.
COMPIL.BAT	3	Batch file for compilation.
T2FOR.LIB	6	Source library.
T2OBJ.LIB	8	Object library.
T2LST.LIB	10	List library.
M1MAP.LIB	12	MOORΦ1 map library.
M2MAP.LIB	12	MOORΦ2 map library.
M4MAP.LIB	12	MOORΦ4 map library.
M5MAP.LIB	12	MOORΦ5 map library.
M2OLY.LIB	13	MOORΦ2 overlay library.
M4OLY.LIB	13	MOORΦ4 overlay library.
LINK.LIB	13	Link command file library.
T2DAT.LIB	13	Scratch file library for MOORΦ2, MOORΦ4.
T2TAB.LIB	13	Table data library for QUERY/ECHO.
GPSRC.LIB	14	Hack library (graphics routines) source code.
HGL.LIB	14	Hack library object code.
DOC.LIB	15	Library for user documentation runs.

#sys101

System Status of COS Version 4 Level 02 (SMLRTL)

December 2, 1982 17 11 13

Devices SYS\*,KB0,DC,JOY,DK0,DK1  
NUL,SYS(DK0),USR(DK1),GIN(JOY)

Character size 4, 64KB memory, COSTOP = SEAA

#dir sys final

Directory Structure of SYS FINAL 23-Nov-82  
Directory Blocks Available= 8, Used= 2

T2FOR	LIB	[1500]	23-Nov-82	14 24	L W
T2LST	LIB	[5000]	23-Nov-82	16 05	L W
M1MAP	LIB	[30]	21-Jun-82	14 34	L W
MOOR04	OBJ	[46]	23-Nov-82	18 53	W
MOOR05	OBJ	[108]	23-Nov-82	19 05	W
MOOR01	OBJ	[128]	23-Nov-82	16 24	W
MOOR02	OBJ	[46]	23-Nov-82	16 52	W
M4MAP	LIB	[60]	30-Jul-82	16 35	L W
M2MAP	LIB	[150]	20-Aug-82	21 51	L W
M5MAP	LIB	[30]	23-Nov-82	18 59	L W
T2OBJ	LIB	[800]	23-Nov-82	15 51	L W
SLIST	DAT	[3]	23-Nov-82	18 46	W
COMPIL	BAT	[31]	23-Nov-82	18 48	W
LINK	LIB	[100]	23-Nov-82	19 56	L W
M4OLY	LIB	[300]	30-Jul-82	16 35	L W
M2OLY	LIB	[1000]	8-Nov-82	16 35	L W
T2DAT	LIB	[100]	23-Nov-82	20 01	L W
T2TAB	LIB	[25]	23-Nov-82	20 01	L W
GPSRC	LIB	[157]	2-Dec-82	11 51	L W
HCL	LIB	[70]	2-Dec-82	11 54	L W
DOC	LIB	[200]	2-Dec-82	17 10	L W

Files-21,Blocks-9884,Free-3296,Largest-3296

#type sys final/slist dot

MOOR01  
MOOR02  
BKDAT  
QUERY  
CFINIT  
RW  
ADDEXT  
ECHO  
HXQRY  
OUTVAR  
CONVRT  
RWCOM1  
SOLVE  
PRSLV  
SECNT  
NWGT  
UMAP  
CUMAP  
ISORT  
TAUT  
SEC1A  
CHS1A  
STEF2A  
CHS2A  
CALC1  
SLACK  
SEC1V  
STEF2V  
VCRIT0  
VFUN  
ESTV  
LENS  
CALC2  
EPSLV  
ELV1  
CCOEFF  
CTEN1  
ROBACK  
CSLACK  
CPREP1  
CPREP2

CPREP3  
SUMSC  
PHIAB  
HSPLIT  
TRISR  
SRISR  
EBUOY  
SCOIL  
STEFAB  
JUNCT  
JTEN  
TSPLIT  
SUBVX  
EDGPT  
SCA7A8  
TAN1  
X4CALC  
WGTH  
CERISR  
CALC3  
SECVIT  
XSECV  
SHIFT  
CPREP0  
CSSHP  
CSEHP  
FTEN  
CSSPR  
CSEPR  
CSSXZ1  
CSSXZ2  
CSEXZ1  
CSEXZ2  
CEPSLV  
FNOD  
LENH  
CTEN2  
CTEN3  
ELV2  
CRDBAK  
COMMAP  
CONTYP  
GRAPH1

GRIN1  
GRIN2  
GROUT1  
GROUT2  
GRAPHS  
STICK  
SINKER  
ANCHOR  
ELIZER  
BUOY  
ELVPNT  
ELVCAT  
SYMSNK  
WELVPT  
PLNPNT  
PLNCAT  
PLNSNK  
WPLNPT  
MOOR04  
HXCALC  
HXCLC1  
HXCLC2  
CSXHP  
MOOR05  
■

#type sys final/compil bat

```
fort sys final/i2obj/MOOR01,sys final/i2lst/MOOR01-sys final/i2for/MOOR01
fort sys final/i2obj/MOOR02,sys final/i2lst/MOOR02-sys final/i2for/MOOR02
fort sys final/i2obj/BKDAT,sys final/i2lst/BKDAT-sys final/i2for/BKDAT
fort sys final/i2obj/QUERY,sys final/i2lst/QUERY-sys final/i2for/QUERY
fort sys final/i2obj/GFINIT,sys final/i2lst/GFINIT-sys final/i2for/GFINIT
fort sys final/i2obj/RW,sys final/i2lst/RW-sys final/i2for/RW
fort sys final/i2obj/ADDEXT,sys final/i2lst/ADDEXT-sys final/i2for/ADDEXT
fort sys final/i2obj/ECHO,sys final/i2lst/ECHO-sys final/i2for/ECHO
fort sys final/i2obj/HXQRY,sys final/i2lst/HXQRY-sys final/i2for/HXQRY
fort sys final/i2obj/OUTVAR,sys final/i2lst/OUTVAR-sys final/i2for/OUTVAR
fort sys final/i2obj/CONVRT,sys final/i2lst/CONVRT-sys final/i2for/CONVRT
fort sys final/i2obj/RWCOM1,sys final/i2lst/RWCOM1-sys final/i2for/RWCOM1
fort sys final/i2obj/SOLVE,sys final/i2lst/SOLVE-sys final/i2for/SOLVE
fort sys final/i2obj/PRSLV,sys final/i2lst/PRSLV-sys final/i2for/PRSLV
fort sys final/i2obj/SECNT,sys final/i2lst/SECNT-sys final/i2for/SECNT
fort sys final/i2obj/NWGT,sys final/i2lst/NWGT-sys final/i2for/NWGT
fort sys final/i2obj/UMAP,sys final/i2lst/UMAP-sys final/i2for/UMAP
fort sys final/i2obj/CUMAP,sys final/i2lst/CUMAP-sys final/i2for/CUMAP
fort sys final/i2obj/ISORT,sys final/i2lst/ISORT-sys final/i2for/ISORT
fort sys final/i2obj/TAUT,sys final/i2lst/TAUT-sys final/i2for/TAUT
fort sys final/i2obj/SEC1A,sys final/i2lst/SEC1A-sys final/i2for/SEC1A
fort sys final/i2obj/CHS1A,sys final/i2lst/CHS1A-sys final/i2for/CHS1A
fort sys final/i2obj/STEF2A,sys final/i2lst/STEF2A-sys final/i2for/STEF2A
fort sys final/i2obj/CHS2A,sys final/i2lst/CHS2A-sys final/i2for/CHS2A
fort sys final/i2obj/CALC1,sys final/i2lst/CALC1-sys final/i2for/CALC1
fort sys final/i2obj/SLACK,sys final/i2lst/SLACK-sys final/i2for/SLACK
fort sys final/i2obj/SEC1V,sys final/i2lst/SEC1V-sys final/i2for/SEC1V
fort sys final/i2obj/STEF2V,sys final/i2lst/STEF2V-sys final/i2for/STEF2V
fort sys final/i2obj/VCRIT0,sys final/i2lst/VCRIT0-sys final/i2for/VCRIT0
fort sys final/i2obj/VFUN,sys final/i2lst/VFUN-sys final/i2for/VFUN
fort sys final/i2obj/ESTV,sys final/i2lst/ESTV-sys final/i2for/ESTV
fort sys final/i2obj/LENS,sys final/i2lst/LENS-sys final/i2for/LENS
fort sys final/i2obj/CALC2,sys final/i2lst/CALC2-sys final/i2for/CALC2
fort sys final/i2obj/EPSTV,sys final/i2lst/EPSTV-sys final/i2for/EPSTV
fort sys final/i2obj/ELV1,sys final/i2lst/ELV1-sys final/i2for/ELV1
fort sys final/i2obj/GCOEFF,sys final/i2lst/GCOEFF-sys final/i2for/GCOEFF
fort sys final/i2obj/CTEN1,sys final/i2lst/CTEN1-sys final/i2for/CTEN1
fort sys final/i2obj/RDBACK,sys final/i2lst/RDBACK-sys final/i2for/RDBACK
fort sys final/i2obj/CSLACK,sys final/i2lst/CSLACK-sys final/i2for/CSLACK
fort sys final/i2obj/CPREP1,sys final/i2lst/CPREP1-sys final/i2for/CPREP1
fort sys final/i2obj/CPREP2,sys final/i2lst/CPREP2-sys final/i2for/CPREP2
```

fort sys final/i2obj/CPREP3,sys final/i2lst/CPREP3-sys final/i2for/CPREP3  
fort sys final/i2obj/SUMSC,sys final/i2lst/SUMSC-sys final/i2for/SUMSC  
fort sys final/i2obj/PHIAB,sys final/i2lst/PHIAB-sys final/i2for/PHIAB  
fort sys final/i2obj/HSPLIT,sys final/i2lst/HSPLIT-sys final/i2for/HSPLIT  
fort sys final/i2obj/TRISR,sys final/i2lst/TRISR-sys final/i2for/TRISR  
fort sys final/i2obj/SRISR,sys final/i2lst/SRISR-sys final/i2for/SRISR  
fort sys final/i2obj/EBUOY,sys final/i2lst/EBUOY-sys final/i2for/EBUOY  
fort sys final/i2obj/SCOIL,sys final/i2lst/SCOIL-sys final/i2for/SCOIL  
fort sys final/i2obj/STEFAB,sys final/i2lst/STEFAB-sys final/i2for/STEFAB  
fort sys final/i2obj/JUNCT,sys final/i2lst/JUNCT-sys final/i2for/JUNCT  
fort sys final/i2obj/JTEN,sys final/i2lst/JTEN-sys final/i2for/JTEN  
fort sys final/i2obj/TSPLIT,sys final/i2lst/TSPLIT-sys final/i2for/TSPLIT  
fort sys final/i2obj/SUBVX,sys final/i2lst/SUBVX-sys final/i2for/SUBVX  
fort sys final/i2obj/EDCPT,sys final/i2lst/EDCPT-sys final/i2for/EDCPT  
fort sys final/i2obj/SCA7A8,sys final/i2lst/SCA7A8-sys final/i2for/SCA7A8  
fort sys final/i2obj/TANI,sys final/i2lst/TANI-sys final/i2for/TANI  
fort sys final/i2obj/X4CALC,sys final/i2lst/X4CALC-sys final/i2for/X4CALC  
fort sys final/i2obj/WGTH,sys final/i2lst/WGTH-sys final/i2for/WGTH  
fort sys final/i2obj/CERISR,sys final/i2lst/CERISR-sys final/i2for/CERISR  
fort sys final/i2obj/CALC3,sys final/i2lst/CALC3-sys final/i2for/CALC3  
fort sys final/i2obj/SECVIT,sys final/i2lst/SECVIT-sys final/i2for/SECVIT  
fort sys final/i2obj/XSECV,sys final/i2lst/XSECV-sys final/i2for/XSECV  
fort sys final/i2obj/SHIFT,sys final/i2lst/SHIFT-sys final/i2for/SHIFT  
fort sys final/i2obj/CPREP0,sys final/i2lst/CPREP0-sys final/i2for/CPREP0  
fort sys final/i2obj/CSSH,sys final/i2lst/CSSH-sys final/i2for/CSSH  
fort sys final/i2obj/CSEHP,sys final/i2lst/CSEHP-sys final/i2for/CSEHP  
fort sys final/i2obj/FTEN,sys final/i2lst/FTEN-sys final/i2for/FTEN  
fort sys final/i2obj/CSSPR,sys final/i2lst/CSSPR-sys final/i2for/CSSPR  
fort sys final/i2obj/CSEPR,sys final/i2lst/CSEPR-sys final/i2for/CSEPR  
fort sys final/i2obj/CSSXZ1,sys final/i2lst/CSSXZ1-sys final/i2for/CSSXZ1  
fort sys final/i2obj/CSSXZ2,sys final/i2lst/CSSXZ2-sys final/i2for/CSSXZ2  
fort sys final/i2obj/CSEXZ1,sys final/i2lst/CSEXZ1-sys final/i2for/CSEXZ1  
fort sys final/i2obj/CSEXZ2,sys final/i2lst/CSEXZ2-sys final/i2for/CSEXZ2  
fort sys final/i2obj/CEPSLV,sys final/i2lst/CEPSLV-sys final/i2for/CEPSLV  
fort sys final/i2obj/FNOD,sys final/i2lst/FNOD-sys final/i2for/FNOD  
fort sys final/i2obj/LENH,sys final/i2lst/LENH-sys final/i2for/LENH  
fort sys final/i2obj/CTEN2,sys final/i2lst/CTEN2-sys final/i2for/CTEN2  
fort sys final/i2obj/CTEN3,sys final/i2lst/CTEN3-sys final/i2for/CTEN3  
fort sys final/i2obj/ELV2,sys final/i2lst/ELV2-sys final/i2for/ELV2  
fort sys final/i2obj/CRDBAK,sys final/i2lst/CRDBAK-sys final/i2for/CRDBAK  
fort sys final/i2obj/COMMAP,sys final/i2lst/COMMAP-sys final/i2for/COMMAP  
fort sys final/i2obj/CONTYP,sys final/i2lst/CONTYP-sys final/i2for/CONTYP  
fort sys final/i2obj/GRAPH1,sys final/i2lst/GRAPH1-sys final/i2for/GRAPH1

```

for1 sys final/i2obj/GRIN1,sys final/i2lst/GRIN1-sys final/i2for/GRIN1
for1 sys final/i2obj/GRIN2,sys final/i2lst/GRIN2-sys final/i2for/GRIN2
for1 sys final/i2obj/GROUT1,sys final/i2lst/GROUT1-sys final/i2for/GROUT1
for1 sys final/i2obj/GROUT2,sys final/i2lst/GROUT2-sys final/i2for/GROUT2
for1 sys final/i2obj/GRAPHS,sys final/i2lst/GRAPHS-sys final/i2for/GRAPHS
for1 sys final/i2obj/STICK,sys final/i2lst/STICK-sys final/i2for/STICK
for1 sys final/i2obj/SINKER,sys final/i2lst/SINKER-sys final/i2for/SINKER
for1 sys final/i2obj/ANCHOR,sys final/i2lst/ANCHOR-sys final/i2for/ANCHOR
for1 sys final/i2obj/ELIZER,sys final/i2lst/ELIZER-sys final/i2for/ELIZER
for1 sys final/i2obj/BUOY,sys final/i2lst/BUOY-sys final/i2for/BUOY
for1 sys final/i2obj/ELVPNT,sys final/i2lst/ELVPNT-sys final/i2for/ELVPNT
for1 sys final/i2obj/ELVCAT,sys final/i2lst/ELVCAT-sys final/i2for/ELVCAT
for1 sys final/i2obj/SYMSNK,sys final/i2lst/SYMSNK-sys final/i2for/SYMSNK
for1 sys final/i2obj/WELVPT,sys final/i2lst/WELVPT-sys final/i2for/WELVPT
for1 sys final/i2obj/PLNPNT,sys final/i2lst/PLNPNT-sys final/i2for/PLNPNT
for1 sys final/i2obj/PLNCAT,sys final/i2lst/PLNCAT-sys final/i2for/PLNCAT
for1 sys final/i2obj/PLNSNK,sys final/i2lst/PLNSNK-sys final/i2for/PLNSNK
for1 sys final/i2obj/WPLNPT,sys final/i2lst/WPLNPT-sys final/i2for/WPLNPT
for1 sys final/i2obj/MOOR04,sys final/i2lst/MOOR04-sys final/i2for/MOOR04
for1 sys final/i2obj/HXCALC,sys final/i2lst/HXCALC-sys final/i2for/HXCALC
for1 sys final/i2obj/HXCLC1,sys final/i2lst/HXCLC1-sys final/i2for/HXCLC1
for1 sys final/i2obj/HXCLC2,sys final/i2lst/HXCLC2-sys final/i2for/HXCLC2
for1 sys final/i2obj/CSXHP,sys final/i2lst/CSXHP-sys final/i2for/CSXHP
for1 sys final/i2obj/MOOR05,sys final/i2lst/MOOR05-sys final/i2for/MOOR05

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mdir sys final/12for

Directory Structure of SYS:12FOR 23-Nov-82  
Directory Blocks Available- 20, Used- 15

MOOR01	FOR	[5]	23-Nov-82	14 24
MOOR02	FOR	[7]	23-Nov-82	14 24
BKDAT	FOR	[3]	23-Nov-82	14 24
QUERY	FOR	[47]	23-Nov-82	14 24
GFINIT	FOR	[3]	23-Nov-82	14 24
RW	FOR	[3]	23-Nov-82	14 24
ADDEXT	FOR	[4]	23-Nov-82	14 24
ECHO	FOR	[17]	23-Nov-82	14 24
HXYR	FOR	[7]	23-Nov-82	14 24
OUTVAR	FOR	[6]	23-Nov-82	14 24
CONVRT	FOR	[16]	23-Nov-82	14 24
RVCOM1	FOR	[5]	23-Nov-82	14 24
SOLVE	FOR	[5]	23-Nov-82	14 25
PRSLV	FOR	[30]	23-Nov-82	14 25
SECNT	FOR	[2]	23-Nov-82	14 25
NUCT	FOR	[2]	23-Nov-82	14 25
UMAP	FOR	[2]	23-Nov-82	14 25
CUMAP	FOR	[2]	23-Nov-82	14 25
ISORT	FOR	[2]	23-Nov-82	14 25
TAUT	FOR	[11]	23-Nov-82	14 25
SEC1A	FOR	[5]	23-Nov-82	14 25
CHS1A	FOR	[3]	23-Nov-82	14 25
STEF2A	FOR	[10]	23-Nov-82	14 25
CHS2A	FOR	[4]	23-Nov-82	14 25
CALC1	FOR	[4]	23-Nov-82	14 25
SLACK	FOR	[10]	23-Nov-82	14 25
SEC1V	FOR	[6]	23-Nov-82	14 25
STEF2V	FOR	[11]	23-Nov-82	14 25
VCRIT0	FOR	[3]	23-Nov-82	14 25
VFUN	FOR	[2]	23-Nov-82	14 25
ESTV	FOR	[2]	23-Nov-82	14 25
LENS	FOR	[3]	23-Nov-82	14 25
CALC2	FOR	[12]	23-Nov-82	14 25
EPSLV	FOR	[17]	23-Nov-82	14 25
ELV1	FOR	[8]	23-Nov-82	14 25
GCOEFF	FOR	[6]	23-Nov-82	14 25
CTEN1	FOR	[9]	23-Nov-82	14 25
ROBACK	FOR	[14]	23-Nov-82	14 25
CSLACK	FOR	[10]	23-Nov-82	14 25
CPREP1	FOR	[12]	23-Nov-82	14 25
CPREP2	FOR	[10]	23-Nov-82	14 25
CPREP3	FOR	[9]	23-Nov-82	14 25
SUMSC	FOR	[2]	23-Nov-82	14 25
PHIAB	FOR	[3]	23-Nov-82	14 26
HSPLIT	FOR	[9]	23-Nov-82	14 26
TRISR	FOR	[9]	23-Nov-82	14 26
SRISR	FOR	[10]	23-Nov-82	14 26
EBUOY	FOR	[15]	23-Nov-82	14 26
SCOIL	FOR	[14]	23-Nov-82	14 26

STEFAB	FOR	[45]	23-Nov-82	14 26
JUNCT	FOR	[11]	23-Nov-82	14 26
JTEN	FOR	[10]	23-Nov-82	14 26
TSPLIT	FOR	[13]	23-Nov-82	14 26
SUBVX	FOR	[6]	23-Nov-82	14 26
EDCPT	FOR	[14]	23-Nov-82	14 26
SCA7A8	FOR	[9]	23-Nov-82	14 26
TANI	FOR	[4]	23-Nov-82	14 26
X1CALC	FOR	[9]	23-Nov-82	14 26
VGTH	FOR	[4]	23-Nov-82	14 26
CERISR	FOR	[9]	23-Nov-82	14 26
CALC3	FOR	[16]	23-Nov-82	14 26
SECY1	FOR	[6]	23-Nov-82	14 26
XSECV	FOR	[31]	23-Nov-82	14 26
SHIFT	FOR	[3]	23-Nov-82	14 26
CPREP0	FOR	[12]	23-Nov-82	14 26
CSSHP	FOR	[37]	23-Nov-82	14 27
CSEMP	FOR	[19]	23-Nov-82	14 27
FTEN	FOR	[9]	23-Nov-82	14 27
CSSPR	FOR	[19]	23-Nov-82	14 27
CSEPR	FOR	[16]	23-Nov-82	14 27
CSSXZ1	FOR	[15]	23-Nov-82	14 27
CSSXZ2	FOR	[20]	23-Nov-82	14 27
CSEXZ1	FOR	[15]	23-Nov-82	14 27
CSEXZ2	FOR	[21]	23-Nov-82	14 27
CEPSLV	FOR	[51]	23-Nov-82	14 27
FNOD	FOR	[4]	23-Nov-82	14 27
LENH	FOR	[3]	23-Nov-82	14 27
CTEN2	FOR	[4]	23-Nov-82	14 27
CTEN3	FOR	[10]	23-Nov-82	14 27
ELV2	FOR	[15]	23-Nov-82	14 27
CROBAK	FOR	[14]	23-Nov-82	14 27
CONMAP	FOR	[2]	23-Nov-82	14 27
CONTP	FOR	[3]	23-Nov-82	14 27
GRAPH1	FOR	[4]	23-Nov-82	14 27
GRIN1	FOR	[19]	23-Nov-82	14 27
GRIN2	FOR	[23]	23-Nov-82	14 27
GROUT1	FOR	[20]	23-Nov-82	14 28
GROUT2	FOR	[20]	23-Nov-82	14 28
GRAPHS	FOR	[6]	23-Nov-82	14 28
STICK	FOR	[9]	23-Nov-82	14 28
SINKER	FOR	[7]	23-Nov-82	14 28
ANCHOR	FOR	[6]	23-Nov-82	14 28
ELIZER	FOR	[7]	23-Nov-82	14 28
BUOY	FOR	[7]	23-Nov-82	14 28
ELVPNT	FOR	[40]	23-Nov-82	14 28
ELVCAT	FOR	[9]	23-Nov-82	14 28
SYMSK	FOR	[5]	23-Nov-82	14 28
VELVPT	FOR	[4]	23-Nov-82	14 28
PLNPNT	FOR	[30]	23-Nov-82	14 28
PLNCAT	FOR	[6]	23-Nov-82	14 28
PLNSK	FOR	[5]	23-Nov-82	14 28
VPLNPT	FOR	[4]	23-Nov-82	14 28
MOOR04	FOR	[8]	23-Nov-82	14 28
HXCALC	FOR	[10]	23-Nov-82	14 28
HXCCL1	FOR	[10]	23-Nov-82	14 28
CSXHP	FOR	[3]	23-Nov-82	14 28

MOOR05 FOR [12] 23-Nov-82 14 29  
HXCLC2 FOR [18] 23-Nov-82 18 50

Files-108,Blocks-1241,Free-239,Largest-239



\*dir sys final/t2obj

Directory Structure of SYS.T2OBJ 23-Nov-82  
Directory Blocks Available- 28, Used- 15

MOOR01	OBJ	(2)	23-Nov-82	14	40
MOOR02	OBJ	(3)	23-Nov-82	14	40
BKDAT	OBJ	(2)	23-Nov-82	14	40
QUERY	OBJ	(45)	23-Nov-82	14	40
GFINIT	OBJ	(1)	23-Nov-82	14	42
RW	OBJ	(1)	23-Nov-82	14	42
ADDEXT	OBJ	(2)	23-Nov-82	14	42
ECHO	OBJ	(16)	23-Nov-82	14	42
HXQRY	OBJ	(7)	23-Nov-82	14	43
OUTVAR	OBJ	(5)	23-Nov-82	14	43
CONVRT	OBJ	(12)	23-Nov-82	14	43
RVCOM1	OBJ	(5)	23-Nov-82	14	44
SOLVE	OBJ	(2)	23-Nov-82	14	44
PRSLV	OBJ	(16)	23-Nov-82	14	44
SECNT	OBJ	(1)	23-Nov-82	14	46
NVCT	OBJ	(2)	23-Nov-82	14	46
UMAP	OBJ	(1)	23-Nov-82	14	46
CUMAP	OBJ	(2)	23-Nov-82	14	46
ISORT	OBJ	(2)	23-Nov-82	14	46
TAUT	OBJ	(3)	23-Nov-82	14	46
SEC1A	OBJ	(5)	23-Nov-82	14	47
CHS1A	OBJ	(3)	23-Nov-82	14	51
STEF2A	OBJ	(11)	23-Nov-82	14	51
CHS2A	OBJ	(3)	23-Nov-82	14	52
CALC1	OBJ	(5)	23-Nov-82	14	52
SLACK	OBJ	(2)	23-Nov-82	14	52
SEC1V	OBJ	(6)	23-Nov-82	14	53
STEF2V	OBJ	(13)	23-Nov-82	14	53
VCR1T0	OBJ	(2)	23-Nov-82	14	54
VFUN	OBJ	(1)	23-Nov-82	14	54
ESTV	OBJ	(2)	23-Nov-82	14	54
LENS	OBJ	(2)	23-Nov-82	14	54
CALC2	OBJ	(14)	23-Nov-82	14	54
EPSLV	OBJ	(8)	23-Nov-82	14	55
ELV1	OBJ	(3)	23-Nov-82	14	56
GCOEFF	OBJ	(6)	23-Nov-82	14	56
CTEN1	OBJ	(10)	23-Nov-82	14	56
ROBACK	OBJ	(3)	23-Nov-82	14	57
CSLACK	OBJ	(3)	23-Nov-82	14	58
CPREP1	OBJ	(5)	23-Nov-82	14	58
CPREP2	OBJ	(2)	23-Nov-82	14	58
CPREP3	OBJ	(2)	23-Nov-82	15	00
SUMSC	OBJ	(2)	23-Nov-82	15	00
PHIAB	OBJ	(2)	23-Nov-82	15	01
HSPLIT	OBJ	(2)	23-Nov-82	15	01
TRISR	OBJ	(1)	23-Nov-82	15	01
SRISR	OBJ	(3)	23-Nov-82	15	02
EBUOY	OBJ	(3)	23-Nov-82	15	02
SCOLL	OBJ	(5)	23-Nov-82	15	03

STEFAB	OBJ	(21)	23-Nov-82	15	04
JUNCT	OBJ	(3)	23-Nov-82	15	06
JTEN	OBJ	(2)	23-Nov-82	15	06
TSPLIT	OBJ	(4)	23-Nov-82	15	07
SUBVX	OBJ	(3)	23-Nov-82	15	07
EDCPT	OBJ	(5)	23-Nov-82	15	08
SCA7A8	OBJ	(1)	23-Nov-82	15	08
TANI	OBJ	(1)	23-Nov-82	15	09
X4CALC	OBJ	(1)	23-Nov-82	15	09
WCTH	OBJ	(2)	23-Nov-82	15	10
CERISR	OBJ	(1)	23-Nov-82	15	10
CALC3	OBJ	(6)	23-Nov-82	15	10
SECVIT	OBJ	(3)	23-Nov-82	15	11
XSECV	OBJ	(10)	23-Nov-82	15	11
SHIFT	OBJ	(2)	23-Nov-82	15	13
CPREP0	OBJ	(4)	23-Nov-82	15	13
CSSH0	OBJ	(10)	23-Nov-82	15	14
CSEHP	OBJ	(9)	23-Nov-82	15	15
FTEN	OBJ	(1)	23-Nov-82	15	16
CSSPR	OBJ	(11)	23-Nov-82	15	16
CSEPR	OBJ	(5)	23-Nov-82	15	17
CSSXZ1	OBJ	(5)	23-Nov-82	15	18
CSSXZ2	OBJ	(9)	23-Nov-82	15	19
CSEXZ1	OBJ	(5)	23-Nov-82	15	20
CSEXZ2	OBJ	(9)	23-Nov-82	15	20
CEPSLV	OBJ	(31)	23-Nov-82	15	21
FNOO	OBJ	(3)	23-Nov-82	15	24
LENH	OBJ	(3)	23-Nov-82	15	24
CTEN2	OBJ	(3)	23-Nov-82	15	24
CTEN3	OBJ	(12)	20-Dec-82	13	31
ELV2	OBJ	(9)	23-Nov-82	15	25
CROBAK	OBJ	(5)	23-Nov-82	15	26
COMMAP	OBJ	(2)	23-Nov-82	15	26
CONTP	OBJ	(3)	23-Nov-82	15	27
GRAPH1	OBJ	(2)	23-Nov-82	15	27
GRIN1	OBJ	(14)	23-Nov-82	15	27
GRIN2	OBJ	(16)	23-Nov-82	15	28
GROUT1	OBJ	(10)	23-Nov-82	15	29
GRAPHS	OBJ	(2)	23-Nov-82	15	30
STICK	OBJ	(7)	23-Nov-82	15	30
SINKER	OBJ	(4)	23-Nov-82	15	31
ANCHOR	OBJ	(4)	23-Nov-82	15	31
ELIZER	OBJ	(4)	23-Nov-82	15	31
BUOY	OBJ	(4)	23-Nov-82	15	31
ELVPNT	OBJ	(25)	23-Nov-82	15	32
ELVCAT	OBJ	(6)	23-Nov-82	15	34
SYMSNK	OBJ	(1)	23-Nov-82	15	34
VELVPT	OBJ	(2)	23-Nov-82	15	34
PLNPNT	OBJ	(21)	23-Nov-82	15	35
PLNCAT	OBJ	(2)	23-Nov-82	15	37
PLNSNK	OBJ	(1)	23-Nov-82	15	37
VPLNPT	OBJ	(2)	23-Nov-82	15	37
MOOR04	OBJ	(3)	23-Nov-82	15	37
HXCALC	OBJ	(2)	23-Nov-82	15	38
HXCCLC	OBJ	(8)	23-Nov-82	15	38
CSXHP	OBJ	(1)	23-Nov-82	15	39
MOOR05	OBJ	(31)	23-Nov-82	15	39

GROUT2 08J (30) 23-Nov-82 15 49  
HXCLC2 08J (8) 23-Nov-82 18 51

Files-108,Blocks-682,Free-98,Largest-98

#dir sys final/121st

Directory Structure of SYS.T2LST 23-Nov-82  
Directory Blocks Available- 20, Used- 15

MOOR01	LST	[22]	23-Nov-82	14	40
MOOR02	LST	[20]	23-Nov-82	14	40
BKDAT	LST	[10]	23-Nov-82	14	40
QUERY	LST	[114]	23-Nov-82	14	40
CFINIT	LST	[9]	23-Nov-82	14	42
RV	LST	[9]	23-Nov-82	14	42
ADDEXT	LST	[11]	23-Nov-82	14	42
ECHO	LST	[40]	23-Nov-82	14	42
HXQRY	LST	[25]	23-Nov-82	14	43
OUTVAR	LST	[22]	23-Nov-82	14	43
CONVRT	LST	[57]	23-Nov-82	14	43
RVCOM1	LST	[10]	23-Nov-82	14	44
SOLVE	LST	[10]	23-Nov-82	14	44
PRSLV	LST	[102]	23-Nov-82	14	44
SECNT	LST	[5]	23-Nov-82	14	46
NVGT	LST	[7]	23-Nov-82	14	46
UMAP	LST	[6]	23-Nov-82	14	46
CUMAP	LST	[7]	23-Nov-82	14	46
ISORT	LST	[8]	23-Nov-82	14	46
TAUT	LST	[44]	23-Nov-82	14	46
SEC1A	LST	[20]	23-Nov-82	14	47
CHS1A	LST	[13]	23-Nov-82	14	51
STEF2A	LST	[30]	23-Nov-82	14	51
CHS2A	LST	[14]	23-Nov-82	14	52
CALC1	LST	[12]	23-Nov-82	14	52
SLACK	LST	[43]	23-Nov-82	14	52
SEC1V	LST	[21]	23-Nov-82	14	53
STEF2V	LST	[40]	23-Nov-82	14	53
VCR1T0	LST	[11]	23-Nov-82	14	54
VFUN	LST	[6]	23-Nov-82	14	54
ESTV	LST	[8]	23-Nov-82	14	54
LENS	LST	[8]	23-Nov-82	14	54
CALC2	LST	[40]	23-Nov-82	14	54
EPSLV	LST	[80]	23-Nov-82	14	55
ELV1	LST	[30]	23-Nov-82	14	56
GCOEFF	LST	[24]	23-Nov-82	14	56
CTEN1	LST	[32]	23-Nov-82	14	56
ROBACK	LST	[61]	23-Nov-82	14	57
CSLACK	LST	[80]	23-Nov-82	14	58
CPREP1	LST	[53]	23-Nov-82	14	59
CPREP2	LST	[45]	23-Nov-82	14	59
CPREP3	LST	[41]	23-Nov-82	15	00
SUMSC	LST	[7]	23-Nov-82	15	00
PHIAB	LST	[10]	23-Nov-82	15	01
HSPLIT	LST	[44]	23-Nov-82	15	01
TRISR	LST	[44]	23-Nov-82	15	01
SRIER	LST	[47]	23-Nov-82	15	02
EBUOY	LST	[60]	23-Nov-82	15	02
SCOIL	LST	[60]	23-Nov-82	15	03

STEFAB	LST	[130]	23-Nov-82	15	04
JUNCT	LST	[52]	23-Nov-82	15	06
JTEN	LST	[44]	23-Nov-82	15	06
TSPLIT	LST	[61]	23-Nov-82	15	07
SUBVX	LST	[24]	23-Nov-82	15	07
EDCPT	LST	[64]	23-Nov-82	15	08
SCA7A0	LST	[41]	23-Nov-82	15	08
TANI	LST	[11]	23-Nov-82	15	09
X4CALC	LST	[44]	23-Nov-82	15	09
VGTH	LST	[16]	23-Nov-82	15	10
CERISR	LST	[43]	23-Nov-82	15	10
CALC3	LST	[70]	23-Nov-82	15	10
SECVIT	LST	[23]	23-Nov-82	15	11
XSECV	LST	[111]	23-Nov-82	15	11
SHIFT	LST	[14]	23-Nov-82	15	13
CPREP0	LST	[55]	23-Nov-82	15	13
CSSHP	LST	[100]	23-Nov-82	15	14
CSEHP	LST	[70]	23-Nov-82	15	15
FTEN	LST	[41]	23-Nov-82	15	16
CSSPR	LST	[70]	23-Nov-82	15	16
CSEPR	LST	[70]	23-Nov-82	15	17
CSSXZ1	LST	[50]	23-Nov-82	15	18
CSSXZ2	LST	[74]	23-Nov-82	15	19
CSEXZ1	LST	[50]	23-Nov-82	15	20
CSEXZ2	LST	[75]	23-Nov-82	15	20
CEPSLV	LST	[104]	23-Nov-82	15	21
FMOO	LST	[14]	23-Nov-82	15	24
LENN	LST	[9]	23-Nov-82	15	24
CTEN2	LST	[14]	23-Nov-82	15	24
CTEN3	LST	[36]	20-Dec-82	15	31
ELV2	LST	[60]	23-Nov-82	15	25
CROBAK	LST	[63]	23-Nov-82	15	26
COMMAP	LST	[7]	23-Nov-82	15	26
CONTYP	LST	[8]	23-Nov-82	15	27
GRAPH1	LST	[15]	23-Nov-82	15	27
GRIN1	LST	[54]	23-Nov-82	15	27
GRIN2	LST	[80]	23-Nov-82	15	28
GROUT1	LST	[71]	23-Nov-82	15	29
GRAPHS	LST	[10]	23-Nov-82	15	30
STICK	LST	[22]	23-Nov-82	15	30
SINKER	LST	[10]	23-Nov-82	15	31
ANCHOR	LST	[17]	23-Nov-82	15	31
ELIZER	LST	[10]	23-Nov-82	15	31
BUOY	LST	[10]	23-Nov-82	15	31
ELVPNT	LST	[140]	23-Nov-82	15	32
ELVCA1	LST	[30]	23-Nov-82	15	34
SYMSNK	LST	[25]	23-Nov-82	15	34
VELVPT	LST	[20]	23-Nov-82	15	34
PLNPNT	LST	[131]	23-Nov-82	15	35
PLNCA1	LST	[20]	23-Nov-82	15	37
PLNSNK	LST	[23]	23-Nov-82	15	37
WPLNPT	LST	[18]	23-Nov-82	15	37
MOOR04	LST	[20]	23-Nov-82	15	37
HXCALC	LST	[40]	23-Nov-82	15	38
HXCLC1	LST	[71]	23-Nov-82	15	38
CXHP	LST	[11]	23-Nov-82	15	38
MOOR05	LST	[02]	23-Nov-82	15	38

GROUT2 LST (72) 23-Nov-82 15 49  
HXCLC2 LST (72) 23-Nov-82 18 51

Files-100,Blocks-1581,Free-399,Largest-399

#dir sys final/m1map

Directory Structure of SYS M1MAP 21-Jun-82  
Directory Blocks Available- 1, Used- 1

MOOR01 MAP [12] 23-Nov-82 16 24

Files-1,Blocks-12,Free-17,Largest-17

#dir sys final/m2map

Directory Structure of SYS M2MAP 20-Aug-82  
Directory Blocks Available- 3, Used- 3

MOOR02 MAP	[10]	23-Nov-82	16 52
QUERY MAP	[9]	23-Nov-82	16 53
SOLVE MAP	[2]	23-Nov-82	16 53
PRSLV MAP	[5]	23-Nov-82	16 53
TAUT MAP	[5]	23-Nov-82	16 54
SLACK MAP	[5]	23-Nov-82	16 54
EPSLV MAP	[7]	23-Nov-82	16 54
CSLACK MAP	[9]	23-Nov-82	16 55
CPREP0 MAP	[2]	23-Nov-82	16 55
CSSH0 MAP	[2]	23-Nov-82	16 56
CSEHP MAP	[2]	23-Nov-82	16 58
CSSPR MAP	[2]	23-Nov-82	16 59
CSEPR MAP	[2]	23-Nov-82	16 59
CSSXZ1 MAP	[2]	23-Nov-82	16 59
CSSXZ2 MAP	[2]	23-Nov-82	17 00
CSEXZ1 MAP	[3]	23-Nov-82	17 00
CSEXZ2 MAP	[2]	23-Nov-82	17 01
CEPSLV MAP	[8]	20-Dec-82	13 49
GRAPH1 MAP	[8]	23-Nov-82	17 02
GRIN1 MAP	[2]	23-Nov-82	17 02
GRIN2 MAP	[2]	23-Nov-82	17 03
GROUT1 MAP	[2]	23-Nov-82	17 03
GROUT2 MAP	[2]	23-Nov-82	17 04
GRAPHS MAP	[8]	23-Nov-82	17 04
ELVPNT MAP	[7]	23-Nov-82	17 05
PLNPNT MAP	[8]	23-Nov-82	17 05

Files-26,Blocks-114,Free-33,Largest-33

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#  
#

#dir sys final/m4map

Directory Structure of SYS M4MAP 30-Jul-82  
Directory Blocks Available- 1, Used- 1

MOOR04 MAP	[10]	23-Nov-82	18 53
QUERY MAP	[9]	23-Nov-82	18 53
PRSLV MAP	[6]	23-Nov-82	18 54
HXCALC MAP	[10]	23-Nov-82	18 54
HXCCL1 MAP	[2]	23-Nov-82	18 55
HXCCL2 MAP	[3]	23-Nov-82	18 55
CPREP0 MAP	[2]	23-Nov-82	18 56

Files-7,Blocks-42,Free-17,Largest-17

#dir sys final/m5map

Directory Structure of SYS M5MAP 23-Nov-82  
Directory Blocks Available- 1, Used- 1

MOOR05 MAP [12] 23-Nov-82 19 05

Files-1,Blocks-12,Free-17,Largest-17

#

#dir sys final/m2oly

Directory Structure of SYS M2OLY 8-Nov-82  
Directory Blocks Available- 8, Used- 3

QUERY	OLY	[70]	23-Nov-82	10 53
SOLVE	OLY	[3]	23-Nov-82	10 53
PRSLV	OLY	[24]	23-Nov-82	10 53
TAUT	OLY	[24]	23-Nov-82	10 54
SLACK	OLY	[33]	23-Nov-82	10 54
EPSLV	OLY	[32]	23-Nov-82	10 54
CSLACK	OLY	[71]	23-Nov-82	10 55
CPREP0	OLY	[3]	23-Nov-82	10 55
CSSHP	OLY	[0]	23-Nov-82	10 56
CSEMP	OLY	[11]	23-Nov-82	10 56
CSSPR	OLY	[13]	23-Nov-82	10 59
CSEPR	OLY	[14]	23-Nov-82	10 59
CSSXZ1	OLY	[15]	23-Nov-82	17 00
CSSXZ2	OLY	[12]	23-Nov-82	17 00
CSEXZ1	OLY	[17]	23-Nov-82	17 01
CSEXZ2	OLY	[10]	23-Nov-82	17 01
CEPSLV	OLY	[02]	20-Dec-82	13 49
GRAPH1	OLY	[15]	23-Nov-82	17 02
GRIN1	OLY	[11]	23-Nov-82	17 03
GRIN2	OLY	[12]	23-Nov-82	17 03
GROUT1	OLY	[7]	23-Nov-82	17 03
GROUT2	OLY	[20]	23-Nov-82	17 04
GRAPHS	OLY	[30]	23-Nov-82	17 04
ELVPNT	OLY	[30]	23-Nov-82	17 05
PLNPNT	OLY	[31]	23-Nov-82	17 05

Files-25,Blocks-500,Free-393,Largest-393

#dir sys final/m4oly

Directory Structure of SYS M4OLY 30-Jul-82  
Directory Blocks Available- 1, Used- 1

QUERY	OLY	[70]	23-Nov-82	10 53
PRSLV	OLY	[25]	23-Nov-82	10 54
HXCALC	OLY	[71]	23-Nov-82	10 55
HXCLC1	OLY	[12]	23-Nov-82	10 55
HXCLC2	OLY	[17]	23-Nov-82	10 56
CPREP0	OLY	[3]	23-Nov-82	10 56

Files-6,Blocks-207,Free-92,Largest-92

#dir sys final/link

Directory Structure of SYS LINK 23-Nov-82  
Directory Blocks Available- 2, Used- 1

M1	CMD	[1]	23-Nov-82	10 07
M1	BAT	[1]	23-Nov-82	10 10
M2	CMD	[15]	23-Nov-82	10 45
M2	BAT	[1]	23-Nov-82	10 39
M2GR	CMD	[3]	23-Nov-82	10 41
M2GR	BAT	[2]	23-Nov-82	10 42
M4	CMD	[5]	23-Nov-82	10 42
M4	BAT	[1]	23-Nov-82	10 03
M5	CMD	[1]	23-Nov-82	10 00
M5	BAT	[1]	23-Nov-82	10 02

Files-10,Blocks-31,Free-67,Largest-67

#dir sys final/t2dat

Directory Structure of SYS T2DAT 21-Jun-82  
Directory Blocks Available- 4, Used- 1

COMMON DAT	[5]	23-Nov-82	19 49
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Files-1,Blocks-5,Free-91,Largest-76

#dir sys final/t2tab

Directory Structure of SYS T1TAB 1-Dec-81  
Directory Blocks Available- 2, Used- 1

ECHO TAB	[0]	21-Jun-82	10 44
----------	-----	-----------	-------

Files-1,Blocks-8,Free-15,Largest-15

#

#dir sys final/gpsrc

Directory Structure of SYS GPSRC 14-Jun-82  
Directory Blocks Available- 3, Used- 3

TRANS	FOR	[1]	30-Jun-78	19	21
XYLIN	FOR	[3]	30-Jun-78	19	26
YLOC	FOR	[3]	30-Jun-78	19	29
XLOC	FOR	[3]	30-Jun-78	19	33
XLAB	FOR	[3]	30-Jun-78	19	33
YLAB	FOR	[3]	30-Jun-78	19	33
XTICKS	FOR	[2]	30-Jun-78	19	33
YTIKCS	FOR	[2]	30-Jun-78	19	34
GRID	FOR	[2]	30-Jun-78	19	34
VERXY	FOR	[5]	30-Jun-78	19	35
SYMBOL	FOR	[2]	30-Jun-78	19	35
PAGE	FOR	[3]	30-Jun-78	19	35
COMDMP	FOR	[4]	30-Jun-78	19	36
INIT	FOR	[12]	30-Jun-78	19	36
PLOT2	FOR	[6]	30-Jun-78	19	37
SYMOUT	FOR	[3]	30-Jun-78	19	37
AXES	FOR	[9]	30-Jun-78	19	38
FRAME	FOR	[3]	30-Jun-78	19	38
TEXT	FOR	[9]	30-Jun-78	19	39
LABELS	FOR	[6]	30-Jun-78	19	39
LINE	FOR	[2]	30-Jun-78	19	39
XYLOC	FOR	[3]	30-Jun-78	19	46
PLOT	FOR	[2]	20-Jul-78	22	11
FPASCI	ASM	[60]	14-Jun-82	16	29

Files-24,Blocks-154,Free-0,Largest-0

#dir sys final/hgl

Directory Structure of SYS HGL 20-Jul-78  
Directory Blocks Available- 4, Used- 3

PLOT	OBJ	[1]	20-Jul-78	22	22
PLOT2	OBJ	[5]	20-Jul-78	22	20
LABELS	OBJ	[6]	20-Jul-78	22	21
XYLIN	OBJ	[2]	20-Jul-78	22	18
XYLOC	OBJ	[1]	20-Jul-78	22	22
YLOC	OBJ	[1]	20-Jul-78	22	18
FPASCI	OBJ	[4]	5-Jul-78	12	46
TRANS	OBJ	[3]	20-Jul-78	22	17
XLOC	OBJ	[1]	20-Jul-78	22	18
XLAB	OBJ	[2]	20-Jul-78	22	18
YLAB	OBJ	[2]	20-Jul-78	22	18
XTICKS	OBJ	[1]	20-Jul-78	22	18
YTIKCS	OBJ	[1]	20-Jul-78	22	19
GRID	OBJ	[1]	20-Jul-78	22	19
VERXY	OBJ	[4]	20-Jul-78	22	19
SYMBOL	OBJ	[1]	20-Jul-78	22	19
PAGE	OBJ	[2]	20-Jul-78	22	19
COMDMP	OBJ	[5]	20-Jul-78	22	19
INIT	OBJ	[5]	20-Jul-78	22	20
SYMOUT	OBJ	[3]	20-Jul-78	22	20
AXES	OBJ	[6]	20-Jul-78	22	20
FRAME	OBJ	[1]	20-Jul-78	22	21
TEXT	OBJ	[7]	20-Jul-78	22	21
LINE	OBJ	[1]	20-Jul-78	22	22

Files-24,Blocks-66,Free-0,Largest-0

#####

#dir sys final/doc

Directory Structure of SYS DOC      2-Dec-82  
Directory Blocks Available- 7, Used- 3

RUN1A	VAR	[3]	2-Dec-82	16	49
RUN1A	ELV	[7]	2-Dec-82	16	50
RUN1A	PLN	[1]	2-Dec-82	16	50
RUN1B	VAR	[3]	2-Dec-82	17	01
RUN1A	LDC	[21]	2-Dec-82	17	41
RUN2A	VAR	[3]	2-Dec-82	20	19
RUN2A	ELV	[5]	2-Dec-82	20	20
RUN2A	PLN	[2]	2-Dec-82	20	20
RUN2A	LDC	[5]	2-Dec-82	20	41
RUN2B	VAR	[3]	2-Dec-82	20	55
RUN2C	VAR	[3]	2-Dec-82	20	59
RUN3A	VAR	[3]	2-Dec-82	21	04
RUN3A	ELV	[5]	2-Dec-82	21	07
RUN3A	PLN	[2]	2-Dec-82	21	07
RUN3A	LDC	[1]	2-Dec-82	21	16
RUN3B	VAR	[3]	2-Dec-82	21	26
RUN3C	VAR	[3]	2-Dec-82	21	33
RUN4A	VAR	[3]	2-Dec-82	21	50
RUN4A	ELV	[25]	2-Dec-82	21	52
RUN4A	PLN	[1]	2-Dec-82	21	52
RUN4B	VAR	[3]	2-Dec-82	21	58
RUN4C	VAR	[3]	2-Dec-82	22	01

Files-22 ,Blocks-108 ,Free-85 ,Largest-85

#



IX. IPL TAPE LISTING

## BATCH STAGE1

Number of Cartridge Tapes(Def=1)?0  
Number of Flexible Discs(Def=2)?0  
Number of Hard Discs(Def=2)?  
Default SYS Device(Def=DK0)?  
Default USR Device(Def=DK1)?  
Number of Tablets(Def=1)?0  
Number of Plotters(Def=0)?  
Number of Line Printers(Def=0)?  
Number of RS-232 Comm Ports(Def=1)?0  
Line Frequency(Def=60)?  
Do you wish Special GOS Module Options(Def=NO)?YES  
    Keyboard Queue Size(Def=80)?40  
    Echo Queue Size (# of entries)(Def=25)?15  
    System Stack Size (bytes) (Def=512)?  
    Time of Day Support(Def=YES)?  
    Power Fail Restart Support(Def=NO)?  
    Display Driver Options(Def=NO)?  
    Subroutine Character Table(Def=NO)?  
    Extended GIN Features(Def=NO)?  
    Include All GOS Services(Def=YES)?  
    Nonstandard GOS Modules(Def=NO)?  
    Nonresident Services (Def=NO)?  
Do you wish to specify an IPL Command(Def=NO)?  
Name for your .SAV (IPL) File(Def=GOS)?SMLRTL  
Exit

END

DATE  
FILMED

5-83

DTI